

What is claimed is:

1. A semiconductor device comprising:

an SOI substrate having a semiconductor substrate, a dielectric layer, and a

5 semiconductor layer formed in this order;

a transistor having a drain region and a source region respectively formed in said semiconductor layer, and a gate electrode formed via a gate dielectric film on a channel region sandwiched between said drain region and said source region;

an interlayer dielectric film formed on said transistor;

10 a drain wiring and a source wiring formed on said interlayer dielectric film;

a first conductor formed in said interlayer dielectric film for connecting said drain wiring to said drain region; and

a second conductor formed in said interlayer dielectric film for connecting said source wiring to said source region, wherein

15 said drain region has a first part being adjacent to said channel region and a second part formed to protrude from said first part so that a part of outer peripheries of said drain region extends away from said gate electrode in a plan view, and

said first conductor is connected to said second part of said drain region.

20 2. The semiconductor device according to claim 1, wherein said first part of said drain region has a width of 0.2 to 0.5  $\mu\text{m}$  with respect to a channel length direction of said channel region, and said second part of said drain region has a length of 0.1 to 0.5  $\mu\text{m}$  with respect to a direction protruding from said first part of said drain region.

3. The semiconductor device according to claim 1, wherein  
said first part of said drain region has a plurality of corner parts in a plan  
view, and

5 said second part of said drain region is formed to protrude obliquely with  
respect to a channel width direction of said channel region from said corner part  
which is not adjacent to said gate electrode.

4. The semiconductor device according to claim 1, wherein a bottom surface  
of said first conductor is partially in contact with said second part of said drain  
10 region by being shifted away from said gate electrode.

5. The semiconductor device according to claim 1, wherein said source  
region has a first part being adjacent to said channel region and a second part  
formed to protrude from said first part so that a part of outer peripheries of said  
15 source region extends away from said gate electrode in a plan view, and

said second conductor is connected to said second part of said source  
region.

6. The semiconductor device according to claim 5, wherein said first part of  
20 said source region has a width of 0.2 to 0.5  $\mu\text{m}$  with respect to a channel length  
direction of said channel region, and said second part of said source region has a  
length of 0.1 to 0.5  $\mu\text{m}$  with respect to a direction protruding from said first part of  
said source region.

25 7. The semiconductor device according to claim 5, wherein

said first part of said source region has a plurality of corner parts in a plan view, and

said second part of said source region is formed to protrude obliquely with respect to a channel width direction of said channel region from said corner part

5 which is not adjacent to said gate electrode.

8. The semiconductor device according to claim 5, wherein a bottom surface of said second conductor is partially in contact with said second part of said source region by being shifted away from said gate electrode.

10

9. The semiconductor device according to claim 1, wherein said source region has a first part being adjacent to said channel region, and

said second conductor is connected to said first part of said source region.

15

10. The semiconductor device according to claim 1, wherein

said transistor further has a side wall formed on a side surface of said gate electrode, and

said side wall is constructed with a porous material.

20

11. The semiconductor device according to claim 1, wherein said interlayer dielectric film is formed except for a region between said gate electrode and said first and second conductors.

12. A semiconductor device comprising:

25

a substrate;

a transistor having a pair of source/drain regions formed in said substrate, a gate electrode formed via a gate dielectric film on a channel region sandwiched between said pair of source/drain regions, and a side wall formed on a side surface of said gate electrode;

5        an interlayer dielectric film formed on said transistor;  
      source/drain wirings formed on said interlayer dielectric film; and  
      conductors formed in said interlayer dielectric film for connecting said  
source/drain wirings to said source/drain regions, wherein  
      said side wall is constructed with a porous material.

10        13. A semiconductor device comprising:

      a substrate;

      a transistor having a pair of source/drain regions formed in said substrate,  
and a gate electrode formed via a gate dielectric film on a channel region

15        sandwiched between said pair of source/drain regions;

      an interlayer dielectric film formed on said transistor;

      source/drain wirings formed on said interlayer dielectric film; and

      conductors formed in said interlayer dielectric film for connecting said  
source/drain wirings to said source/drain regions, wherein

20        said interlayer dielectric film is formed except for a region between said  
gate electrode and said conductors.